$\bigcap$	•	
	1	

~=	/ 1 11		4. 4	4 *	
X7 I	(Amended	۱A	disk	drive	comprising:
$\circ$	(1 1111011000	,	GIUIL	<b></b> ,	OCILIPITOTICS.

a disk having a plurality of concentric tracks for storing data, the tracks including a first track having a first data pattern with a first frequency and a second data pattern with a second frequency that is higher than the first frequency, wherein the first and second data patterns are located in separate non-overlapping circumferential portions of the first track;

a head for reading data from and writing data to the disk; and a detection circuit that determines whether the head is within an acceptable flying height range in response to the first and second data patterns while the head is at a substantially constant flying height and independently of flying height data obtained from the disk drive at other than the substantially constant flying height.

 $CN_3^2$ 

## 97. (Amended) A disk drive, comprising:

a disk having a plurality of concentric tracks for storing data, the tracks including a first track having a first data pattern with a first frequency and a second data pattern with a second frequency that is higher than the first frequency, wherein the first and second data patterns are located in separate non-overlapping circumferential portions of the first track;

a head for reading data from and writing data to the disk; and
a detection circuit that determines whether the head is within an acceptable flying
height range in response to the first and second data patterns while the head is at a
substantially constant flying height and independently of flying height data obtained from
the disk drive at a predetermined flying height.

## Add the following claims:



- 1 107. The disk drive of claim-87, wherein the first and second data patterns are circumferentially adjacent to one another.
- 1 108. The disk drive of claim 87, wherein the first and second data patterns are circumferentially spaced from one another.
- 1 109. The disk drive of claim 87, wherein the first and second data patterns each intersect a centerline of the first track.
- 1 110. The disk drive of claim 87, wherein the first data pattern is circumferentially adjacent to a first user data field on the first track.
- 1 111. The disk drive of claim 110, wherein the second data pattern is 2 circumferentially adjacent to a second user data field on the first track.
- 1 112. The disk drive of claim 87, wherein the first and second data patterns are circumferentially adjacent to and separated by a region of the first track that is devoid of a user data field.
- 1 113. The disk drive of claim 112, wherein the region of the first track contains 2 two servo burst fields between the first and second data patterns.
- 1 114. The disk drive of claim 112, wherein the region of the first track contains 2 three servo burst fields between the first and second data patterns.

- 115. The disk drive of claim 87, wherein only one of the first and second data 1 2 patterns provides servo positioning information. The disk drive of claim 87, wherein both of the first and second data 1 116. patterns provide servo positioning information. 2 The disk drive of claim 97, wherein the first and second data patterns are 117. 1 circumferentially adjacent to one another. 2 118. The disk drive of claim 97, wherein the first and second data patterns are 1 2 circumferentially spaced from one another. 119. The disk drive of claim 97, wherein the first and second data patterns each 1 intersect a centerline of the first track. 2 The disk drive of claim 97, wherein the first data pattern is 120. 1 2 circumferentially adjacent to a first user data field on the first track. 1 121. The disk drive of claim 120, wherein the second data pattern is circumferentially adjacent to a second user data field on the first track. 2 122. The disk drive of claim 121, wherein the first and second data patterns are 1 circumferentially adjacent to and separated by a region of the first track that is devoid of a 2
  - 123. The disk drive of claim 122, wherein the region of the first track contains two servo burst fields between the first and second data patterns.

3

1

2

user data field.

- 124. The disk drive of claim 122, wherein the region of the first track contains
- three servo burst fields between the first and second data patterns.



- 1 125. The disk drive of claim 97, wherein only one of the first and second data 2 patterns provides servo positioning information.
- 1 126. The disk drive of claim 97, wherein both of the first and second data
- 2 patterns provide servo positioning information.